

Atty. Docket No. SIRF.P025.US.C2

PATENT

IN THE UNITED STATES PATENT OFFICE

Which is a continuation of U.S. Ser. No. 09/886,671,
which is a continuation of U.S. Ser. No 09/461,123,
now U.S. Patent 6,282,231

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97

·Sir:

Enclosed are Information Disclosure Citation Forms PTO-1449 and PTO/SB/08 listing references cited in the parent patent applications. Because the references were cited and considered by the Examiner in the parent cases, copies of the references are not enclosed. It is respectfully requested that the cited references be considered and that the enclosed copies of the enclosed Forms be initialed by the Examiner to indicate such consideration and a copy thereof returned to Applicant.

Pursuant to 37 CFR 1.97(h), the submission of this Information Disclosure Statement is not to be construed as an admission that the information cited in this statement is material to patentability.

This Information Disclosure Statement is being submitted concurrently with the above-

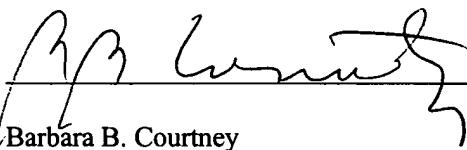
captioned continuation application.

The Commissioner is hereby authorized to charge any fees which may be required in connection with this submission to Deposit Account No. 501914.

Respectfully submitted,

SHEMWELL GREGORY & COURTNEY LLP

Dated: November 12, 2003



Barbara B. Courtney
Registration No. 42,442

1 of 11

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)		ATTY. DOCKET NO. 51RF.P025.US.C2	SERIAL NO. <u>Not yet assigned</u>
		APPLICANT Charles P. Norman et al.	
		FILING DATE <u>HEREWITH</u>	GROUP <u>2634 (Parent)</u>

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
	Des. 314,713	02/19/91	Ciranny et al			
	Des. 314,963	02/26/91	Best et al			
	Des. 343,383	01/18/94	Hall et al			
	Des. 344,942	03/08/94	Gilman et al			
	Des. 346,170	04/19/94	Tang			
	Des. 347,436	05/31/94	Tang			
	Des. 354,451	01/17/95	Burrell et al			
	Des. 354,452	01/17/95	Burrell et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	0 501 828 A1	09/22/92	EPO				
	0 501 829 A1	09/02/92	EPO				
	0 511 741 A1	11/04/92	EPO				
	2 712 095	05/12/95	France				
	0 436 854 A2	07/17/91	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"Minimum Probability of Error for Asynchronous Gaussian Multiple-Access Channels," by Sergio Verdu for IEEE Transactions on Information Theory, Vol. IT-32, No. 1, January 1986
	"An Adaptive Canceller of Cochannel Interference for Spread-Spectrum Multiple-Access Communication Networks in a Power Line," by Ryuji Kohno, et al. for IEEE Journal on Selected Areas in Communications, Vol. 8, No. 4, May 1990
	"Improved Parallel Interference Cancellation for CDMA," by Dariush Divsalar, et al. for IEEE Transactions on Communications, Vol. 46, No. 2, February 1998

EXAMINER

DATE CONSIDERED

EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)		ATTY. DOCKET NO. SIRF. POS5. US. C2		SERIAL NO. Not yet assigned			
		APPLICANT Charles P. Norman et al.					
		FILING DATE <i>HEREWITH</i>	GROUP 2634 (Parent)				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS		
	Des. 361,569	08/22/95	Jervis				
	Des. 363,488	10/24/95	Shumaker				
	Des. 365,032	12/12/95	Laverick et al				
	Des. 365,292	12/19/95	Laverick et al				
	4,203,071	05/13/80	Bowles et al				
	4,592,076	05/27/86	El-Banna				
	4,675,880	06/23/87	Davarian				
	4,691,348	09/01/87	Braathen				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
	0 635 728 A1	01/25/95	EPO				
	0 689 034 A1	12/27/95	EPO				
	WO 95/08779	03/30/95	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER			DATE CONSIDERED				
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.							

INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. SIRF. P025.U.S.C2	SERIAL NO. <u>Not yet assigned</u>
		APPLICANT		Charles P. Norman et al.	
		FILING DATE		HERENWIT	
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	4,701,934	10/20/87	Jasper		
	4,754,465	06/28/88	Trimble		
	4,758,959	07/19/88	Thoone et al		
	4,796,191	01/03/89	Honey et al		
	4,807,256	02/21/89	Holmes et al		
	4,847,862	07/11/89	Braisted et al		
	4,890,233	12/26/89	Ando et al		
	4,894,662	01/16/90	Counselman		
	4,910,526	03/20/90	Donnangelo et al		
	4,922,212	05/01/90	Roberts et al		
	4,928,106	05/22/90	Ashjaee et al		
	4,965,586	10/23/90	O'Neill et al		
	4,970,523	11/13/90	Braisted et al		
	5,043,736	08/27/91	Darnell et al		
	5,045,770	09/03/91	Brooks		
	5,075,694	12/24/91	Donnangelo et al		
	5,089,822	02/18/92	Abaunza et al		
	5,099,493	03/24/92	Zeger et al		
	5,101,416	03/31/92	Fenton et al		
	5,107,227	04/21/92	Brooks		
	5,108,334	04/28/92	Eschenbach et al		
	5,109,344	04/28/92	Kakihara et al		
	5,111,150	05/05/92	Casey		
	5,119,101	06/02/92	Barnard		
EXAMINER			DATE CONSIDERED		
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.					

4 of 11

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)			ATTY. DOCKET NO. <u>SIARF.P015.US.C2</u>	SERIAL NO. <u>Not yet assigned</u>			
			APPLICANT <u>Charles P. Norman et al.</u>	FILING DATE <u>HEREWITH</u>	GROUP <u>2634 (Parent)</u>		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE	
	5,134,407	07/28/92	Lorenz et al				
	5,144,318	09/01/92	Kishi				
	5,146,471	09/08/92	Cowart				
	5,148,179	09/15/92	Allison				
	5,150,377	09/22/92	Vannucci				
	5,153,583	10/06/92	Murdoch				
	5,157,697	10/20/92	Anvari et al				
	5,165,109	11/17/92	Han et al				
	5,173,715	12/22/92	Rodal et al				
	5,175,744	12/29/92	Crespo et al				
	5,187,450	02/16/93	Wagner et al				
	5,192,957	03/09/93	Kennedy				
	5,196,743	03/23/93	Brooks				
	5,202,694	04/13/93	Farmer et al				
	5,202,829	04/13/93	Geier				
	5,210,540	05/11/93	Masumoto				
	5,219,067	06/15/93	Lima et al				
	5,223,844	06/29/93	Mansell et al				
	5,225,842	07/06/93	Brown et al				
	5,239,669	08/24/93	Mason et al				
	5,247,469	09/21/93	McCune, Jr.				
	5,263,053	11/16/93	Wan et al				
	5,265,025	11/23/93	Hirata				
	5,266,948	11/30/93	Matsumoto				
EXAMINER: <u>hh</u>			DATE CONSIDERED				
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.							

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)			ATTY. DOCKET NO. SIRF.P025.US.C2	SERIAL NO. <u>Not yet assigned</u>			
			APPLICANT	Charles P. Norman et al.			
			FILING DATE	HEREWITH	GROUP	2634 (Parent)	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPLICABLE
	5,268,064	12/07/93	Woo et al				
	5,268,695	12/07/93	Dentinger et al				
	5,272,485	12/21/93	Mason et al				
	5,282,228	01/25/94	Scott et al				
	5,293,170	03/08/94	Lorenz et al				
	5,296,861	03/22/94	Knight				
	5,306,971	04/26/94	McCune				
	5,309,482	05/03/94	Wright et al				
	5,311,149	05/10/94	Wagner et al				
	5,311,197	05/10/94	Sorden et al				
	5,313,069	05/17/94	Tham				
	5,313,457	05/17/94	Hostetter et al				
	5,313,490	05/17/94	Schramm et al				
	5,319,374	06/07/94	Desai et al				
	5,321,799	06/14/94	McCune, Jr.				
	5,323,152	06/21/94	Morita				
	5,323,322	06/21/94	Mueller				
	5,329,549	07/12/94	Kawasaki				
	5,334,974	08/02/94	Simms et al				
	5,337,243	08/09/94	Shibata et al				
	5,345,244	09/06/94	Gildea et al.				
	5,347,284	09/13/94	Volpi et al				
	5,347,536	09/13/94	Meehan				
	5,347,546	09/13/94	Abadi et al				
EXAMINER			DATE CONSIDERED				
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.							

INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)			U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. <u>SLRF.P005.45.C2</u>	SERIAL NO. <u>Not yet assigned</u>	
			APPLICANT		Charles P. Norman et al.		
			FILING DATE		<u>HERENWITZ</u>		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE IF APPLICABLE
	5,349,530	09/20/94	Odagawa				
	5,353,348	10/04/94	Sendyk et al				
	5,355,140	10/11/94	Slavin et al				
	5,365,192	11/15/94	Wagner et al				
	5,365,451	11/15/94	Wang et al				
	5,365,516	11/15/94	Jandrell				
	5,367,463	11/22/94	Tsiji				
	5,375,059	12/20/94	Kyrtssos et al				
	5,383,127	01/17/95	Shibata				
	5,390,124	02/14/95	Kyrtssos				
	5,390,207	02/14/95	Fenton et al				
	5,402,347	03/28/95	McBurney et al				
	5,402,450	03/28/95	Lennen				
	5,406,491	04/11/95	Lima				
	5,408,193	04/18/95	Rodal				
	5,412,660	05/02/95	Chen et al				
	5,412,687	05/02/95	Sutton et al				
	5,414,729	05/09/95	Fenton				
	5,416,712	05/16/95	Geier et al				
	5,418,537	05/23/95	Bird				
	5,420,593	05/30/95	Niles				
	5,422,813	06/06/95	Schuchman et al				
	5,422,814	06/06/95	Sprague et al				
	5,422,816	06/06/95	Sprague et al				
EXAMINER			DATE CONSIDERED				
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.							

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)		ATTY. DOCKET NO. SIRF. P025. U.S. C2		SERIAL NO. <u>Not yet assigned</u>
		APPLICANT	Charles P. Norman et al.	
		FILING DATE	HEREWITH	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
	5,422,917	06/06/95	Scott			
	5,424,953	06/13/95	Masumoto et al			
	5,430,654	07/04/95	Kyrtos et al			
	5,432,803	07/11/95	Liu et al			
	5,432,841	07/11/95	Rimer			
	5,432,859	07/11/95	Yang et al.			
	5,436,632	07/25/95	Sheynblat			
	5,448,773	09/05/95	McBurney et al			
	5,450,344	09/12/95	Woo et al			
	5,450,448	09/12/95	Sheynblat			
	5,452,211	09/19/95	Kyrtos et al			
	5,465,413	11/07/95	Enge et al			
	5,467,095	11/14/95	Rodal et al			
	5,469,360	11/21/95	Ihara et al			
	5,471,218	11/28/95	Talbot et al			
	5,471,518	11/28/95	Barber et al			
	5,479,351	12/26/95	Woo et al			
	5,485,154	01/16/96	Brooks et al			
	5,485,161	01/16/96	Vaughn			
	5,485,163	01/16/96	Singer et al			
	5,486,834	01/23/96	Lennen			
	5,490,076	02/06/96	Rawicz et al			
	5,493,588	02/20/96	Lennen			
EXAMINER		DATE CONSIDERED				

EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use Several Sheets if Necessary)		ATTY. DOCKET NO. SIRF. P025.US.02	SERIAL NO. <u>Not yet assigned</u>
		APPLICANT	Charles P. Norman et al.
		FILING DATE	HEREWITTH

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPLICABLE
	5,493,694	02/20/96	Vlcek et al			
	5,495,257	02/27/96	Loomis			
	5,495,499	02/27/96	Fenton et al			
	5,504,491	04/02/96	Chapman			
	5,537,121	07/16/96	Lennen			
	5,537,323	07/16/96	Schulte			
	5,541,592	07/30/96	Shiihara			
	5,541,845	07/30/96	Klein			
	5,552,990	09/03/96	Ihara et al			
	5,572,218	11/05/96	Cohen et al			
	5,583,513	12/10/96	Cohen			
	5,604,732	02/18/97	Kim et al			
	5,610,815	03/11/97	Gudat et al			
	5,612,972	03/18/97	Fukushi et al			
	5,619,212	04/08/97	Counselman, III			
	5,640,416	06/17/97	Chalmers			
	5,675,608	10/07/97	Kim et al			
	5,689,252	11/18/97	Ayanoglu et al			
	5,724,384	03/03/98	Kim et al			
	5,729,571	03/17/98	Park et al			
	5,742,922	04/21/98	Kim			
	5,781,152	07/14/98	Renard et al			
	5,790,549	08/04/98	Dent			
	5,793,818	08/11/98	Claydon et al			
EXAMINER		DATE CONSIDERED				

EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		C m pl t if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	not yet assigned
		Filing Date	HEREWITH
		First Named Inventor	Charles P. Norman
		Group Art Unit	2634 (parent app)
		Examiner Name	Amanda T. Le (Parent app)
Sheet	10	of	11
		Attorney Docket Number	SIRF-P025.US.C2

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST-3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	not yet assigned
Filing Date	HEREWITH
First Named Inventor	Charles P. Norman
Group Art Unit	2634 (parent app)
Examiner Name	Amanda T. Le (Parent app)
Attorney Docket Number	SIRF.P025.US.C2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.